TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION

I. GENERAL INFORMATION

A. APPLICANT

United States Gypsum Company
6825 Evergreen Ave.
Jacksonville, Fl. 32208-4996

Draft Permit No: 0310072-019-AC
County: Duval

B. PROJECT

The applicant, United States Gypsum Company, applied on July 15, 2011 to the Permitting Authority for a permit to replace the dust collector for Emission Unit (EU) No. 062 (No. 3 Board Plant Starch Storage Bins) and to add a dust collector to the existing No. 3 Board Plant Starch Receiver/Refill Bin (new EU No. 111) for the above referenced facility.

II. RULE APPLICABILITY

The facility is located in an area unclassifiable for the air pollutant particulate matter less than or equal to ten micrometers (PM10), in the area of influence of an air quality maintenance area for PM, and in an air quality maintenance area for ozone pursuant to Chapter 62-204, Florida Administrative Code (FAC), and Jacksonville Environmental Protection Board (JEPB), Rule 2.201.

The facility is a Title V major source of air pollution because the potential emissions of at least one regulated air pollutant is greater than 100 tons per year pursuant to Chapter 62-213, FAC, and JEPB Rule 2.501. Based upon the air construction permit application received on July 15, 2011, this facility is not a major source of hazardous air pollutants (HAPs).

The project is subject to Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), FAC, and Rule 2.1101, JEPB]**; Maximum Allowable Emission Rates** [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), FAC, and Rule 2.1101, JEPB], **Operation and Maintenance Plan** [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB], the provisions of New Source Performance Standards (NSPS), 40 CFR 60, Subpart OOO, Standards of Performance for Non-Metallic Mineral Processing Plants, and 40 CFR 60, Subpart A, General Conditions. The facility is currently minor for purposes of Prevention of Significant Deterioration (PSD) [i.e., potential to emit is below 250 tons per year] and will continue to be minor for PSD purposes following the modifications.

III. TECHNICAL EVALUATION

Emission Unit No. 062-No. 3 Board Plant Starch Storage Bins

Particulate Matter (PM) control device: SENECA Baghouse, Model 24-FMBV-100 (Special)

The estimated maximum process rate is 25 TPH. The estimated maximum air flow rate is 1,200 dscfm.
This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.

40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants and 40 CFR 60, Subpart A, General Provisions, shall apply to this emission unit.

Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emissions Units** [Rule 62-296.700(3), FAC, and Rule 2.1101, JEPB]**; Maximum Allowable Emission Rates** [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), FAC, and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB] shall apply to this emission unit.

PM emissions shall be limited to 0.015gr/dscf [0.15 lbs/hr and 0.68 TPY]. VE shall be limited to 5 % opacity.

. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A), and the procedures in 40 CFR 60.11, for the visual determination of opacity.

Initial VE compliance testing shall be conducted within 60 days after achieving the maximum production rate at which the emission unit will be operated, but no later than 180 days after initial start-up. VE testing shall be conducted for a minimum period of 30 minutes.

Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM concentration. The minimum sample volume shall be 30 dscf.

PM testing shall be conducted upon request of the Permitting Authority.

The permittee shall submit an O&M Plan with the Title V Revision application.

Emission Unit No. 111-No. 3 Board Plant Starch Receiver/Refill Bin

Particulate Matter (PM) control device: SENECA Baghouse Model 2-CARTHZ-245

The estimated maximum process rate is 3 TPH. The estimated maximum air flow rate is 500 dscfm.
This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.

40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants and 40 CFR 60, Subpart A, General Provisions, shall apply to this emission unit.

Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emissions Units** [Rule 62-296.700(3), FAC, and Rule 2.1101, JEPB]**; Maximum Allowable Emission Rates** [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), FAC, and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB] shall apply to this emission unit.

PM emissions shall be limited to 0.015 gr/dscf [0.06 lbs/hr and 0.28 TPY]. VE shall be limited to 5 % opacity.

Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A), and the procedures in 40 CFR 60.11, for the visual determination of opacity.

Initial VE compliance testing shall be conducted within 60 days after achieving the maximum production rate at which the emission unit will be operated, but no later than 180 days after initial start-up. VE testing shall be conducted for a minimum period of 30 minutes.

Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM concentration. The minimum sample volume shall be 30 dscf.

PM testing shall be conducted upon request of the Permitting Authority.

The permittee shall submit an O&M Plan with the Title V Revision application.

IV. PRELIMINARY DETERMINATION

Based upon information provided by the United States Gypsum Company the Permitting Authority has reasonable assurance that the proposed modification of the United States Gypsum Company, Gypsum Wallboard Manufacturing Plant, as described in this evaluation and subject to the conditions proposed herein, will not cause, or contribute to a violation of any ambient air quality standard or other technical provision of Chapters 62-296 and 62-297, FAC, JEPB Rules 2.1101 and 2.1201.